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SHARP 21LS-90C SERVICE MANUAL

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SHARP®

SERVICE MANUAL

SE0021LS90C00
Issued: 30th Aug. 2004

AK-44 CHASSIS

PAL B/G / SECAM L/L', B/G, D/K SYSTEM COLOUR TELEVISION

MODEL 21LS-90C

In the interests of user safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

In order to service the model 21LS-90C, refer to the AK-44 Chassis Service Manual (SE00AK44CHA00).

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SHARP CORPORATION

This document has been published to be used for after sales service only.

SERVICE MANUAL UPDATE LOG SHEET

Technical Report No. Technical Bulletin No.	Cause / Solution	Part No.	Page No.	Application Data /Serial No.

Use this page to keep any special servicing information as Technical Report (Bulletin), Technical Information, etc.
If only part number changes are required, just change part number directly the part number in the Parts Listing Section.
If you need more information, please refer to the Technical Report (Bulletin).

ELECTRICAL SPECIFICATIONS

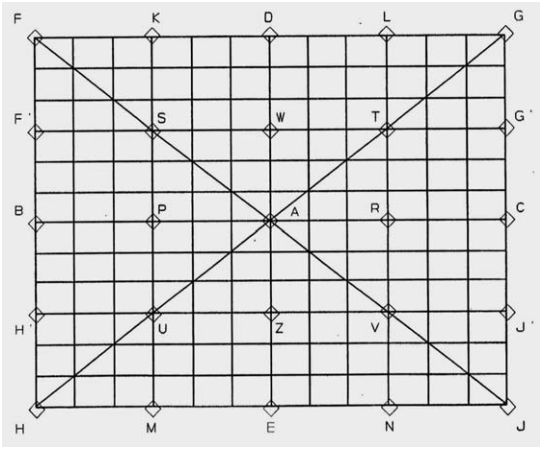
•Power Input ..... 220V-240 Volts AC 50 Hz

•Power Consumption
Normal Operation (Method IEC60107) ..... 64 W
Stand-by Operation ..... < 3 W

•Audio Power Output Rating (MPO) / Impedance
Internal Left Speaker ..... 4 W, 16 Ω
Internal Right Speaker ..... 4 W, 16 Ω

•Speakers
Speaker elliptic (2 pcs) ..... 50 x 120 mm

•Convergence (Maximum Misconvergence)



AREA	mm
A	0.3
BC	1.0
DE	1.0
FGHJ	1.3
KLMN	1.2
F'G'H'J'	1.2
STUV	1.1

•Picture Intermediate frequency
L' 33.9MHz
L, B/G, D/K 38.9MHz

•Sound Carrier Trap
L' 40.4MHz
L, D/K 32.4MHz
B/G 33.4MHz

•Adjacent Sound Carrier Trap
L' 32.4MHz
L, D/K, B/G 40.4MHz

•Adjacent Picture Carrier Trap
L' 41.9MHz
L, D/K 30.9MHz
B/G 31.9MHz

•Aerial Input Impedance
VHF/UHF ..... 75 ohm Unbalanced

•Tuning Ranges ..... 48.25MHz thru 855.25 MHz
VHF: S1 - S41 CH (Hyperband)
E2 - E12 / F2 - F10
OIRT R1 - R12
UHF: E21 - E69

•White Level
Apply the rated voltage at the rated frequency to the TV set, while it is receiving full white pattern RF signal of 60 dB/μV from its RF input via the pattern generator.
Turn all picture controls to maximum value. Measure the colour temperatures at the center of the screen by using the colour analyzer.

X=0.304 ± 0.015 Y=0.306 ± 0.015

Specifications are subject to change without prior notice.

MODEL DESTINATION (Operation Manual Languages)

21LS-90C: Czech, English, Hungarian, Polish, Romanian, Russian, Slovakian

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

IMPORTANT SERVICING NOTES

Only qualified service personnel are allowed to carry out maintenance and repair of this receiver.

Servicing of High Voltage System and CRT

It is important that the static charge is removed from the high voltage system when carrying out work on the receiver. This can be achieved by connecting a 10K resistor (with a suitably insulated lead) from the CRT cavity connector to the CRT ground tag. This must be carried out with the AC supply disconnected from the receiver.

Note the following:

- The CRT in this receiver employs Integral Implosion Protection.
- If the CRT has to be changed it MUST be replaced with the correct type for continued safe working.
- DO NOT lift the CRT by its neck.
- When handing the CRT, ensure that shatterproof goggles are worn.
- Ensure that the CRT is discharge before handling.

X-Ray

This receiver is designed to keep any x-ray emission to an absolute minimum. Some fault conditions and servicing procedures may produce potentially hazardous x-ray radiation levels. This is a problem when in close proximity to the receiver for long periods of time. To reduce any risks associated with this, please observe the following precautions:

1. When undertaking any servicing on this chassis, DO NOT increase the EHT to more than 29.5 KV, (at a instantaneous beam current of 1150 μA).

2. Ensure that during normal operation the EHT does not exceed 26.2 KV (at a beam current of 1150 μA). This level has been preset in the factory. Always check that this level has not been exceeded after carrying out any repair on the receiver.

3. DO NOT replace the CRT with any other type than that specified in the parts listing as this may cause excessive x-ray radiation.

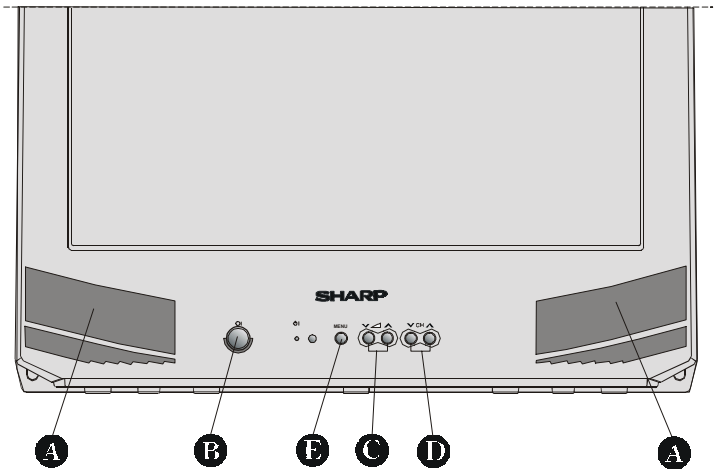
Before returning the receiver to the customer

In addition to the above checks, the following should also be carried out before returning the receiver to the customer.

1. Inspect all the leads to ensure that they are dressed correctly and that they are not obstructed or pinched by any other parts.

2. Ensure that all protective devices are in good condition. These will include nonmetallic control knobs, insulating fish papers, cabinets backs, compartment covers or shields, mechanical insulators, etc.

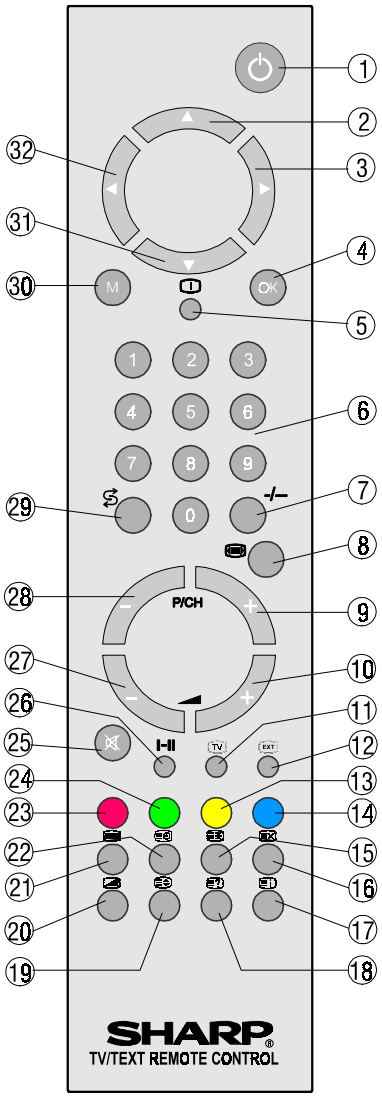
CONTROLS & TERMINALS



Ⓐ Speakers (left + right)
Ⓑ ⏻ = Power On / Off
Ⓒ ∨ ◢ ∧ = Volume -/+
Ⓓ ∨ **CH** ∧ = Program -/+
Ⓔ **MENU** = Menu

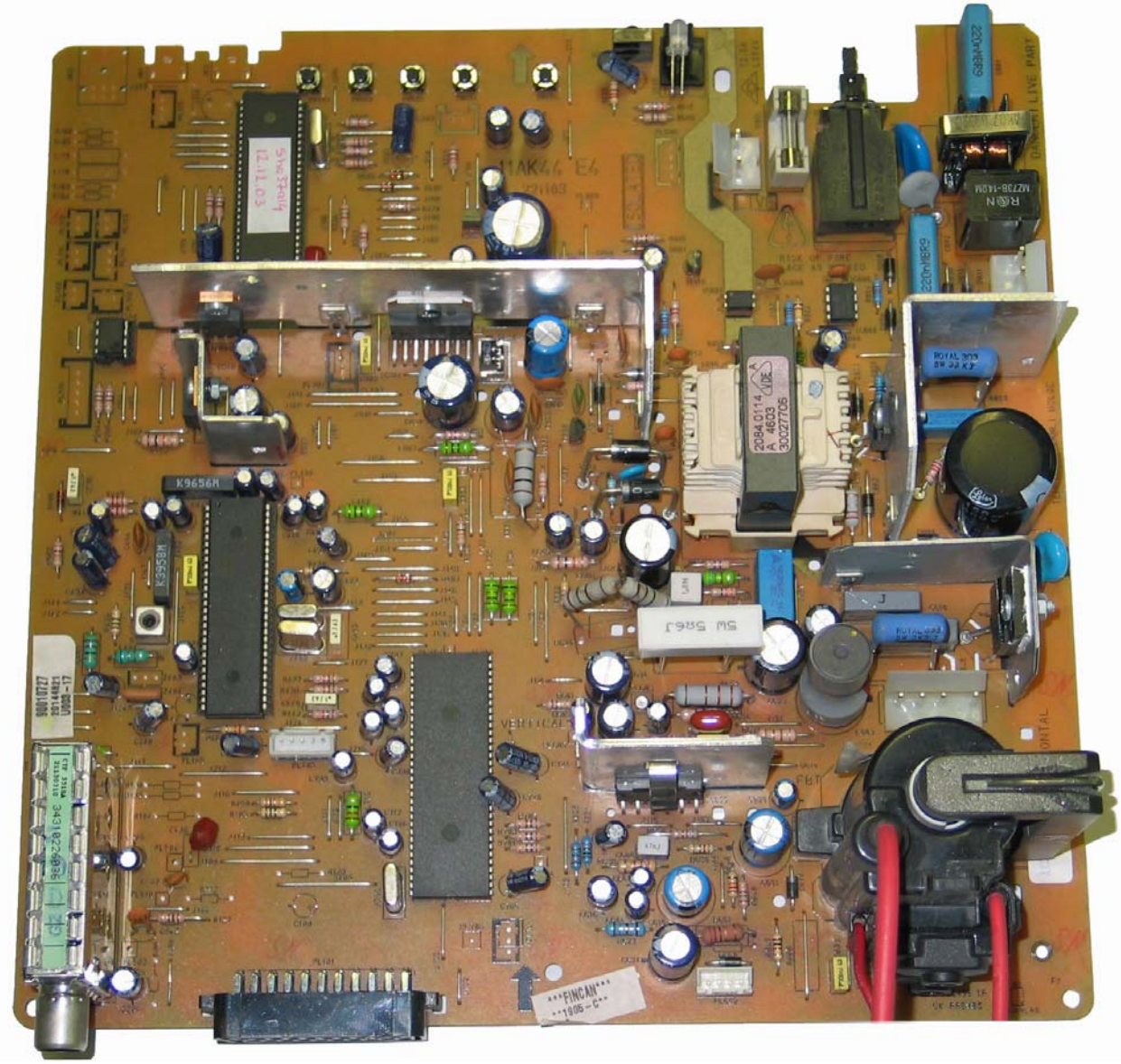
REMOTE CONTROL

① ⏻ = Stand By
② △ = Cursor Up
③ ▷ = Cursor Right
④ OK = OK
⑤ ⓘ = Info (Program Menu)
⑥ **0 - 9** = Direct Program
⑦ **-/--** = Double Digit
⑧ = Wide mode button
⑨ **P/CH+** = Program +
⑩ ◢ **+** = Volume +
⑪ TV = TV / Quit Menu
⑫ EXT = EXT button
(**SCART, F- AV, RGB**)
⑬ **Yellow** = Feature Menu
⑭ **Blue** = Installation Menu
⑮ = Hold
⑯ = Update
⑰ = Index Page
⑱ = Reveal
⑲ = Expand
⑳ = Mix
㉑ = Teletext
㉒ = Time
㉓ **Red** = Sound Menu
㉔ **Green** = Picture Menu
㉕ = Mute
㉖ **I-II** = Mono/Stereo - Dual I-II
㉗ **-** ◢ = - Volume
㉘ **- P/CH** = -Program
㉙ = Flash back button
㉚ **M** = Menu
㉛ ▽ = Cursor Down
㉜ ◁ = Cursor Left

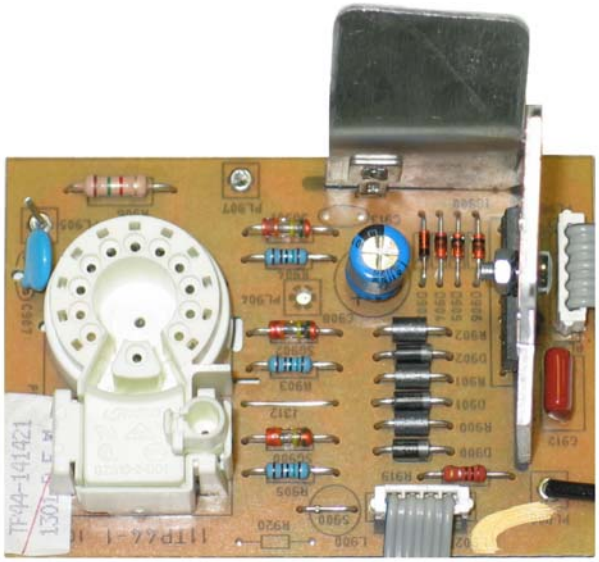


CHASSIS LAYOUT

Mother Unit



CRT Unit



PARTS LISTING

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by in the Replacement Parts Listing.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.
Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.

1. MODEL NUMBER 2. REF. NO.
3. PART NO. (*) 4. DESCRIPTION
5. CODE 6. QUANTITY

(*) When ordering any part, a "V" should be added before the Part No.

	REF No.	(*) PARTS	DESCRIPTION	SN CODE	EX CODE
			PICTURE TUBE		
⚠	.	30002749	21" CPT TUBE SAFE	BQ	CG
⚠	.	30028645	21" DEG COIL&EARTH CB. SAFE WO/UL SHARP	AG	AS
			TUNER		
	TU201	30009637	TUNER WSP (PLL) CTF5510A	AR	BC
			INTEGRATED CIRCUITS		
	IC118	30001506	IC TL431	AC	AH
	IC301	30011824	IC TDA7266	AF	AR
	IC403	30026922	IC STV2248H (SHRINK56)	AR	BC
	IC500	20144879	IC 24C08 U00715210310121102	AB	AF
	IC501	20164253	PR.IC.36/44-SHARP 36_44_B28	AT	BD
	IC502	30001669	PREAMPLIFIER TFMS1380	AD	AM
	IC600	30015306	IC TDA8174AW	AD	AN
	IC700	30013658	IC MSP3410G SDIP64	AS	BD
	IC800	30011968	IC SMPS MC44608 DIP8	AF	AQ
⚠	IC801	30015087	IC SAFE OPTOCOUPLER TCET1102G	AA	AE
	IC803	30001500	IC LM7808	AC	AH
	IC804	30001622	IC 7805 (1A)	AB	AF
	IC806	30014346	IC 78L05 TO-92 (100mA)	AA	AE
	IC900	30025172	IC TDA6107JF/N3	AF	AQ
			TRANSISTORS		
	Q104	30001457	TR BC848B SMD	AA	AC
	Q301	30001458	TR BC858B SMD	AA	AB
	Q302	30001457	TR BC848B SMD	AA	AC
	Q402	30001457	TR BC848B SMD	AA	AC
	Q405	30001457	TR BC848B SMD	AA	AC
	Q406	30001457	TR BC848B SMD	AA	AC
	Q503	30001457	TR BC848B SMD	AA	AC
	Q504	30001458	TR BC858B SMD	AA	AB
	Q505	30001457	TR BC848B SMD	AA	AC
	Q601	30013656	TR POWER STX112-AP	AA	AE
	Q603	30001448	TR BU808DFI	AF	AQ
	Q604	30001457	TR BC848B SMD	AA	AC
	Q606	30001457	TR BC848B SMD	AA	AC
	Q607	30001458	TR BC858B SMD	AA	AB
	Q700	30001458	TR BC858B SMD	AA	AB
	Q801	30001386	TR MTP6N60E (PLASTIC)	AE	AP
	Q802	30001457	TR BC848B SMD	AA	AC
	Q804	30001454	TR BC548B	AA	AC
			DIODES		
	D101	30025773	DIODE ZENER SMD BZT55B5V1	AA	AA
	D102	30025773	DIODE ZENER SMD BZT55B5V1	AA	AA
	D103	30025773	DIODE ZENER SMD BZT55B5V1	AA	AA
	D104	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D105	30025773	DIODE ZENER SMD BZT55B5V1	AA	AA
	D106	30001377	DIODE ZENER 33V UZT 33B	AB	AF
	D107	30025773	DIODE ZENER SMD BZT55B5V1	AA	AA
	D108	30003720	DIODE ZENER BZT55C5V6 5.6V SMD	AA	AB
	D109	30003720	DIODE ZENER BZT55C5V6 5.6V SMD	AA	AB
	D112	30003720	DIODE ZENER BZT55C5V6 5.6V SMD	AA	AB
	D114	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D300	30001285	DIODE 1N4148 SMD	AA	AB
	D301	30001285	DIODE 1N4148 SMD	AA	AB
	D402	30012411	DIODE BA782 SMD	AA	AD
	D405	30007763	DIODE ZENER SMD BZT55C5V1	AA	AB
	D407	30001284	DIODE 1N4148 0.15A/100V 0.5A	AA	AB
	D408	30001285	DIODE 1N4148 SMD	AA	AB
	D409	30030809	DIODE ZENER SMD BZT55B10V	AA	AA
	D410	30030809	DIODE ZENER SMD BZT55B10V	AA	AA
	D411	30030809	DIODE ZENER SMD BZT55B10V	AA	AA
	D501	30001285	DIODE 1N4148 SMD	AA	AB
	D505	30001284	DIODE 1N4148 0.15A/100V 0.5A	AA	AB
	D506	30001284	DIODE 1N4148 0.15A/100V 0.5A	AA	AB
	D509	30001279	LED RED/GREEN LTL293SJ	AC	AH
	D509	40017873	LED HOLDER (SHARP)	AA	AC
	D512	30001285	DIODE 1N4148 SMD	AA	AB
	D513	30007761	DIODE ZENER SMD BZT55C3V6	AA	AB
	D602	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D603	30001285	DIODE 1N4148 SMD	AA	AB
	D608	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D609	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D610	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D611	30001285	DIODE 1N4148 SMD	AA	AB
	D614	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D615	30001285	DIODE 1N4148 SMD	AA	AB
	D616	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D619	30009699	DIODE ZENER SMD BZT55C12	AA	AB
	D621	30001285	DIODE 1N4148 SMD	AA	AB
	D622	30001285	DIODE 1N4148 SMD	AA	AB
	D623	30001285	DIODE 1N4148 SMD	AA	AB
	D700	30001285	DIODE 1N4148 SMD	AA	AB
	D701	30001369	DIODE ZENER 3.6V ZPD	AA	AB
	D800	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D801	30001347	DIODE ZENER 8.2V	AA	AB
	D802	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D803	30001315	DIODE BYD33D 1A/200V 20A	AA	AE
	D804	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D805	30001315	DIODE BYD33D 1A/200V 20A	AA	AE
	D806	30001315	DIODE BYD33D 1A/200V 20A	AA	AE
	D808	30007681	DIODE UF5407 3A/800V 150A	AB	AF
	D809	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D810	30009366	DIODE UF5402 3A/200V 150A	AB	AF
	D811	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D813	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D837	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D838	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D889	30001384	TR MCR22-6	AB	AG
	D890	30001329	DIODE 1N4007 1A/1000V 30A	AA	AB
	D893	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D894	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D900	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D901	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D902	30001318	DIODE BA159 1A/800V 20A	AA	AB
	D903	30001344	DIODE ZENER 6.2V 1/2W	AA	AB
	D904	30001349	DIODE ZENER 11V	AA	AB
	D905	30001349	DIODE ZENER 11V	AA	AB
	D906	30001349	DIODE ZENER 11V	AA	AB
			PACKAGED CIRCUITS		

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	X401	30001749	XTAL 4.433619 MHZ (AK15)	AC	AK
	X402	30015592	XTAL 3.579545 (WO/LOAD CAP)	AB	AG
	X403	30000074	CAP MKT 100NF 63V J	AA	AC
	X501	30002851	XTAL 4MHZ L.C=30PF	AC	AH
	X700	30001756	XTAL 18.432MHZ	AE	AP
			COILS		
	L101	30013412	FERRITE BEAD (0805) MMZ2012Y152B	AA	AA
	L110	30013412	FERRITE BEAD (0805) MMZ2012Y152B	AA	AA
	L111	30013412	FERRITE BEAD (0805) MMZ2012Y152B	AA	AA
	L112	30013412	FERRITE BEAD (0805) MMZ2012Y152B	AA	AA
	L113	30013412	FERRITE BEAD (0805) MMZ2012Y152B	AA	AA
	L114	30013412	FERRITE BEAD (0805) MMZ2012Y152B	AA	AA
	L201	30001979	FIXED COIL 1UH Q45 M-A	AA	AB
	L210	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L211	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L401	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L402	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
	L403	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L404	30001990	FIXED COIL 6.8UH Q75 K	AA	AB
	L406	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L407	30002002	FIXED COIL 47UH Q60 K	AA	AB
	L601	30001990	FIXED COIL 6.8UH Q75 K	AA	AB
	L603	30002149	LINEARITY COIL 50UH (06-06A)	AE	AN
	L700	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L701	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L702	30001996	FIXED COIL 22UH Q40 K	AA	AB
	L703	30001979	FIXED COIL 1UH Q45 M-A	AA	AB
	L704	30001979	FIXED COIL 1UH Q45 M-A	AA	AB
	L802	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L803	30001984	FIXED COIL 2.2UH Q55 M-AX	AA	AB
	L805	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L806	30001971	FERRITE BEAT (805) BLM21A601S	AA	AD
	L807	30001992	FIXED COIL 10UH Q65 K-A	AA	AB
			CERAMIC FILTERS		
	Z401	30012545	FILTER SAW K9656M	AG	AR
	Z402	30014261	FILTER SAW K3958M	AF	AR
	Z404	30001724	FILTER SER TRAP TPS 5.5MHZ	AB	AF
			TRANSFORMERS		
⚠	TR601	30017788	TRF FBT SAFE 90ø (AK30,AK36 LAYER TYPE)	AT	BE
⚠	TR801	30002100	LINE FILTER SAFE 2*27MH	AC	AH
⚠	TR802	30027706	TRF SMPS AK44 90° (170-270V) Audio=12V	AF	AQ
			CAPACITORS		
	C143	30012583	CAP SMD 1.5NF 50V K (0603)	AA	AA
	C144	30012583	CAP SMD 1.5NF 50V K (0603)	AA	AA
	C201	30000400	CAP EL 47UF 50V M	AA	AB
	C205	30000371	CAP EL 22UF 50V M	AA	AB
	C206	30012610	CAP SMD 10NF 50V J (0603)	AA	AB
	C207	30012610	CAP SMD 10NF 50V J (0603)	AA	AB
	C300	30000400	CAP EL 47UF 50V M	AA	AB
	C302	30000092	CAP MKT 220NF 63V J	AA	AD
	C305	30000092	CAP MKT 220NF 63V J	AA	AD
	C404	30000225	CAP CER 220PF 50V J SL	AA	AB
	C408	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C409	30000345	CAP EL 10UF 50V M	AA	AB
	C410	30000384	CAP EL 2.2UF 50V M	AA	AB
	C411	30000345	CAP EL 10UF 50V M	AA	AB
	C412	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C413	30000362	CAP EL 1UF 50V M	AA	AB
	C414	30012585	CAP SMD 2.2NF 50V K R (0603)	AA	AB
	C415	30012581	CAP SMD 1NF 50V K R (0603)	AA	AB
	C416	30000362	CAP EL 1UF 50V M	AA	AB
	C417	30000362	CAP EL 1UF 50V M	AA	AB

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	C418	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C419	30000413	CAP EL 4.7UF 50V M	AA	AB
	C420	30000100	CAP MKT 330NF 63V J	AA	AD
	C422	30000400	CAP EL 47UF 50V M	AA	AB
	C423	30000400	CAP EL 47UF 50V M	AA	AB
	C424	30000345	CAP EL 10UF 50V M	AA	AB
	C425	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C426	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C427	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C429	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C431	30000362	CAP EL 1UF 50V M	AA	AB
	C432	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C433	30000345	CAP EL 10UF 50V M	AA	AB
	C434	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C435	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C436	30000109	CAP MKT 470NF 63V J	AA	AD
	C437	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C438	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C439	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C440	30000074	CAP MKT 100NF 63V J	AA	AC
	C443	30000362	CAP EL 1UF 50V M	AA	AB
	C444	30000384	CAP EL 2.2UF 50V M	AA	AB
	C446	30000345	CAP EL 10UF 50V M	AA	AB
	C448	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C449	30012567	CAP SMD 220PF 50V J (0603)	AA	AB
	C451	30012585	CAP SMD 2.2NF 50V K R (0603)	AA	AB
	C452	30012585	CAP SMD 2.2NF 50V K R (0603)	AA	AB
	C453	30012581	CAP SMD 1NF 50V K R (0603)	AA	AB
	C454	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C455	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C456	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C459	30012575	CAP SMD 4.7PF 50V C CH (0603)	AA	AA
	C460	30000345	CAP EL 10UF 50V M	AA	AB
	C502	30000396	CAP EL 47UF 16V M	AA	AB
	C504	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C505	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C510	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C511	30012566	CAP SMD 22PF 50V J (0603)	AA	AB
	C513	30000371	CAP EL 22UF 50V M	AA	AB
	C514	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C515	30012579	CAP SMD 82PF 50V J (0603)	AA	AB
	C517	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C518	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C519	30000352	CAP EL 100UF 16V M	AA	AB
	C520	30012560	CAP SMD 100PF 50V J (0603)	AA	AB
	C521	30012562	CAP SMD 15PF 50V J (0603)	AA	AA
	C522	30012562	CAP SMD 15PF 50V J (0603)	AA	AA
	C523	30012585	CAP SMD 2.2NF 50V K R (0603)	AA	AB
	C525	30012566	CAP SMD 22PF 50V J (0603)	AA	AB
	C530	30012589	CAP SMD 4.7NF 50V K (0603)	AA	AB
	C531	30000384	CAP EL 2.2UF 50V M	AA	AB
	C532	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C536	30000074	CAP MKT 100NF 63V J	AA	AC
	C541	30000109	CAP MKT 470NF 63V J	AA	AD
	C542	30000205	CAP CER 150PF 50V J SL	AA	AB
	C543	30000205	CAP CER 150PF 50V J SL	AA	AB
	C545	30012607	CAP SMD 150PF 50V J (0603)	AA	AA
	C546	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C548	30012603	CAP SMD 100NF 25V K R (0603)	AA	AB
	C603	30000384	CAP EL 2.2UF 50V M	AA	AB
	C604	30000345	CAP EL 10UF 50V M	AA	AB
	C608	30000107	CAP MKT 47NF 250V J	AA	AD
	C610	30000355	CAP EL 100UF 50V M	AA	AB
	C611	30000092	CAP MKT 220NF 63V J	AA	AD
	C613	30000078	CAP MKT 1UF 100V M	AB	AF

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	C615	30000359	CAP EL 1000UF 16V M	AA	AC
	C616	30000352	CAP EL 100UF 16V M	AA	AB
⚠	C618	30007100	CAP MKP SAFE 10NF 1600V %3.5	AA	AE
	C619	30000131	CAP MKP SAFE 100NF 250V J	AA	AB
	C623	30029182	CAP EL 100UF 250V M W LONG LEAD	AB	AF
	C624	30000350	CAP EL 10UF 250V M	AA	AD
⚠	C627	30000154	CAP MKP SAFE 390NF 250V J	AB	AG
	C628	30018380	CAP EL 3.3UF 160V M 105°	AA	AB
	C631	30000410	CAP EL 470UF 50V M	AB	AF
	C632	30000100	CAP MKT 330NF 63V J	AA	AD
	C633	30016085	CAP EL 10UF 63V 105°	AA	AB
	C634	30000409	CAP EL 470UF 25V M	AA	AD
	C635	30000100	CAP MKT 330NF 63V J	AA	AD
	C636	30000387	CAP EL 33UF 50V M	AA	AB
	C638	30012581	CAP SMD 1NF 50V K R (0603)	AA	AB
	C641	30000345	CAP EL 10UF 50V M	AA	AB
	C642	30012609	CAP SMD 68NF 50V K (0603)	AA	AB
	C643	30000116	CAP MKT 68NF 63V J	AA	AC
	C644	30000362	CAP EL 1UF 50V M	AA	AB
	C645	30000352	CAP EL 100UF 16V M	AA	AB
	C700	30012565	CAP SMD 1.8PF 50V J CH (0603)	AA	AA
	C701	30012565	CAP SMD 1.8PF 50V J CH (0603)	AA	AA
	C702	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C703	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C704	30012576	CAP SMD 56PF 50V J CH (0603)	AA	AA
	C705	30000345	CAP EL 10UF 50V M	AA	AB
	C706	30000345	CAP EL 10UF 50V M	AA	AB
	C707	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C708	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C710	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C712	30000345	CAP EL 10UF 50V M	AA	AB
	C713	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C714	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C716	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C719	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C720	30000345	CAP EL 10UF 50V M	AA	AB
	C724	30000345	CAP EL 10UF 50V M	AA	AB
	C729	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C730	30000393	CAP EL 3.3UF 50V M	AA	AB
	C733	30000345	CAP EL 10UF 50V M	AA	AB
	C734	30000345	CAP EL 10UF 50V M	AA	AB
	C735	30012586	CAP SMD 22NF 50V K (0603)	AA	AB
	C736	30000345	CAP EL 10UF 50V M	AA	AB
	C737	30000371	CAP EL 22UF 50V M	AA	AB
	C738	30000371	CAP EL 22UF 50V M	AA	AB
	C741	30012581	CAP SMD 1NF 50V K R (0603)	AA	AB
	C742	30012581	CAP SMD 1NF 50V K R (0603)	AA	AB
	C748	30012560	CAP SMD 100PF 50V J (0603)	AA	AB
⚠	C801	30000094	CAP MKT SAFE 220NF 275V M AC	AA	AB
⚠	C802	30000094	CAP MKT SAFE 220NF 275V M AC	AA	AB
	C803	30000433	CAP CER 1NF 1KV M B	AA	AB
	C805	30018085	CAP VAR SAFE 510V K MFCN14D511	AA	AD
	C806	30000433	CAP CER 1NF 1KV M B	AA	AB
	C808	30000295	CAP CER 100NF 50V Z F	AA	AB
	C809	30000420	CAP EL 150UF 400V M	AF	AQ
	C810	30000387	CAP EL 33UF 50V M	AA	AB
⚠	C811	30000161	CAP MKP SAFE 47NF 630V J	AB	AE
	C813	30000295	CAP CER 100NF 50V Z F	AA	AB
⚠	C816	30000440	CAP CER SAFE 2.2NF 4KV M	AA	AC
	C817	30000198	CAP CER 120PF 500V J SL	AA	AB
	C818	30016654	CAP SMD 100NF 16V K R (0603)	AA	AB
	C819	30012609	CAP SMD 68NF 50V K (0603)	AA	AB
	C822	30007308	CAP CER 220PF 1KV K (PULSE)	AA	AD
	C824	30009208	CAP CER 470PF 1KV K (PULSE)	AA	AC
	C826	30029182	CAP EL 100UF 250V M W LONG LEAD	AB	AF
	C827	30000411	CAP EL 4700UF 16V M	AC	AH
	C828	30000295	CAP CER 100NF 50V Z F	AA	AB
	C829	30000359	CAP EL 1000UF 16V M	AA	AC
	C830	30000382	CAP EL 2200UF 16V M	AB	AF
	C832	30000295	CAP CER 100NF 50V Z F	AA	AB
	C833	30000407	CAP EL 470UF 16V M	AA	AC
	C834	30000295	CAP CER 100NF 50V Z F	AA	AB
	C836	30000431	CAP CER 100PF 1KV M	AA	AC
	C838	30000352	CAP EL 100UF 16V M	AA	AB
	C839	30000352	CAP EL 100UF 16V M	AA	AB
	C840	30000352	CAP EL 100UF 16V M	AA	AB
	C843	30000431	CAP CER 100PF 1KV M	AA	AC
	C848	30000352	CAP EL 100UF 16V M	AA	AB
	C849	30000352	CAP EL 100UF 16V M	AA	AB
	C850	30000352	CAP EL 100UF 16V M	AA	AB
	C855	30000407	CAP EL 470UF 16V M	AA	AC
	C857	30012573	CAP SMD 47PF 50V J (0603)	AA	AB
	C858	30007308	CAP CER 220PF 1KV K (PULSE)	AA	AD
	C862	30000367	CAP EL 1UF 250V M	AA	AB
⚠	C864	30000440	CAP CER SAFE 2.2NF 4KV M	AA	AC
	C907	30000434	CAP CER 1NF 2KV K B	AA	AB
	C908	30000415	CAP EL 4.7UF 250V M	AA	AC
	C912	30000075	CAP MKT 100NF 250V K (DC)	AA	AD
			RESISTORS		
	R105	30000792	RES CF 1/4W 75R J	AA	AB
	R109	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R110	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R113	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R114	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R115	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R116	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R117	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R118	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R123	30012713	RES SMD 1/16W 75R J (0603)	AA	AB
	R127	30000459	RES CF 1/4W 100R J	AA	AB
	R201	30012674	RES SMD 1/16W 27K J (0603)	AA	AB
	R202	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R204	30000459	RES CF 1/4W 100R J	AA	AB
	R206	30000459	RES CF 1/4W 100R J	AA	AB
	R301	30000471	RES CF 1/4W 10K J	AA	AB
	R302	30000471	RES CF 1/4W 10K J	AA	AB
	R303	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R305	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R306	30012509	RES SMD 1/16W 100K J (0603)	AA	AB
	R407	30000590	RES CF 1/4W 2.2K J	AA	AB
	R410	30000590	RES CF 1/4W 2.2K J	AA	AB
	R412	30012696	RES SMD 1/16W 47K J (0603)	AA	AB
	R417	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R418	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R419	30012649	RES SMD 1/16W 150R J (0603)	AA	AB
	R420	30000466	RES CF 1/4W 1K J	AA	AB
	R421	30012650	RES SMD 1/16W 15K J (0603)	AA	AB
	R422	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R423	30012712	RES SMD 1/16W 8.2K J (0603)	AA	AB
	R424	30000712	RES CF 1/4W 470R J	AA	AB
	R425	30012668	RES SMD 1/16W 220R J (0603)	AA	AA
	R426	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R427	30012674	RES SMD 1/16W 27K J (0603)	AA	AB
	R428	30000792	RES CF 1/4W 75R J	AA	AB
	R431	30012674	RES SMD 1/16W 27K J (0603)	AA	AB
	R432	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R433	30012667	RES SMD 1/16W 220K J (0603)	AA	AB
	R437	30000466	RES CF 1/4W 1K J	AA	AB
	R438	30000466	RES CF 1/4W 1K J	AA	AB

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	R439	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R440	30012714	RES SMD 1/16W 820R J (0603)	AA	AA
	R441	30012656	RES SMD 1/16W 18K J (0603)	AA	AB
	R442	30000466	RES CF 1/4W 1K J	AA	AB
	R446	30012714	RES SMD 1/16W 820R J (0603)	AA	AA
	R447	30012714	RES SMD 1/16W 820R J (0603)	AA	AA
	R448	30012683	RES SMD 1/16W 330K J (0603)	AA	AB
	R449	30012662	RES SMD 1/16W 2.7K J (0603)	AA	AB
	R450	30000712	RES CF 1/4W 470R J	AA	AB
	R455	30012665	RES SMD 1/16W 20K J (0603)	AA	AA
	R458	30012662	RES SMD 1/16W 2.7K J (0603)	AA	AB
	R459	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R460	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R461	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R463	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R464	30012665	RES SMD 1/16W 20K J (0603)	AA	AA
	R465	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R467	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R468	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R469	30000670	RES CF 1/4W 330K J	AA	AB
	R470	30012683	RES SMD 1/16W 330K J (0603)	AA	AB
	R474	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R475	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R476	30012707	RES SMD 1/16W 680R J (0603)	AA	AB
	R477	30014022	RES SMD 1/16W 47R J (0603)	AA	AA
	R502	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R503	30012707	RES SMD 1/16W 680R J (0603)	AA	AB
	R504	30012679	RES SMD 1/16W 3.9K J (0603)	AA	AB
	R505	30012673	RES SMD 1/16W 270R J (0603)	AA	AB
	R506	30012506	RES SMD 1/16W 1.5K J (0603)	AA	AB
	R507	30000466	RES CF 1/4W 1K J	AA	AB
	R508	30000622	RES CF 1/4W 270R J	AA	AB
	R509	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R510	30000737	RES CF 1/4W 5.1K J	AA	AB
	R511	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R512	30012504	RES SMD 1/16W 1.2K J (0603)	AA	AB
	R513	30000459	RES CF 1/4W 100R J	AA	AB
	R514	30000459	RES CF 1/4W 100R J	AA	AB
	R515	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R516	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R517	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R518	30000471	RES CF 1/4W 10K J	AA	AB
	R519	30012698	RES SMD 1/16W 5.6K J (0603)	AA	AB
	R525	30000583	RES CF 1/4W 220R J	AA	AB
	R526	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R527	30000718	RES CF 1/4W 4.7K J	AA	AB
	R528	30012698	RES SMD 1/16W 5.6K J (0603)	AA	AB
	R530	30012698	RES SMD 1/16W 5.6K J (0603)	AA	AB
	R533	30012644	RES SMD 1/16W 12K J (0603)	AA	AB
	R534	30000526	RES CF 1/4W 1.5K J	AA	AB
	R535	30000718	RES CF 1/4W 4.7K J	AA	AB
	R536	30000471	RES CF 1/4W 10K J	AA	AB
	R537	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R545	30012644	RES SMD 1/16W 12K J (0603)	AA	AB
	R546	30000560	RES CF 1/4W 1.8K J	AA	AB
	R547	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R548	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R552	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R555	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R556	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R559	30000470	RES CF 1/2W 10K J	AA	AA
	R560	30012669	RES SMD 1/16W 22K J (0603)	AA	AB
	R561	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R562	30000471	RES CF 1/4W 10K J	AA	AB
	R564	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R565	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R601	30000477	RES CF 1/4W 100K J	AA	AB
	R602	30000513	RES CF 1/4W 130K J	AA	AB
	R605	30000477	RES CF 1/4W 100K J	AA	AB
	R612	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R613	30012692	RES SMD 1/16W 4.7K J (0603)	AA	AB
	R618	30012662	RES SMD 1/16W 2.7K J (0603)	AA	AB
	R619	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R623	30000607	RES CF 1/4W 2.2R J	AA	AB
	R625	30000900	RES MF 1/4W 1.8K J	AA	AB
	R627	30000910	RES MF 1/2W 1.8R G	AA	AB
	R628	30000650	RES CF 1/4W 33R J	AA	AB
	R630	30000828	RES CF 1/4W 8.2M J	AA	AB
	R631	30000886	RES MF 1/4W 1.5K F	AA	AB
	R633	30000706	RES CF 1/4W 47R J	AA	AB
	R634	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R637	30000621	RES CF 1/2W 270R J	AA	AB
	R638	30000589	RES CF 1/2W 2.2K J	AA	AA
	R639	30000718	RES CF 1/4W 4.7K J	AA	AB
	R640	30012662	RES SMD 1/16W 2.7K J (0603)	AA	AB
	R641	30012649	RES SMD 1/16W 150R J (0603)	AA	AB
	R645	30001126	RES MO 3W 2.2K J	AA	AB
	R646	30000500	RES CF 1/4W 12K J	AA	AB
	R647	30000466	RES CF 1/4W 1K J	AA	AB
⚠	R648	30001215	RES FUSE SAFE 1W 1R J	AA	AC
	R649	30000801	RES CF 1/4W 7.5K J	AA	AB
	R650	30000744	RES CF 1/4W 560R J	AA	AB
	R654	30000705	RES CF 1/2W 47R J	AA	AB
	R655	30000705	RES CF 1/2W 47R J	AA	AB
	R657	30012656	RES SMD 1/16W 18K J (0603)	AA	AB
	R658	30001077	RES MO 2W 10R J	AA	AC
	R659	30001123	RES MO 2W 220R J	AA	AC
	R660	30012669	RES SMD 1/16W 22K J (0603)	AA	AB
	R661	30012674	RES SMD 1/16W 27K J (0603)	AA	AB
	R662	30000712	RES CF 1/4W 470R J	AA	AB
	R663	30000459	RES CF 1/4W 100R J	AA	AB
	R665	30012708	RES SMD 1/16W 68K J (0603)	AA	AA
	R667	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R668	30012641	RES SMD 1/16W 10K J (0603)	AA	AB
	R669	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R701	30000459	RES CF 1/4W 100R J	AA	AB
	R703	30000459	RES CF 1/4W 100R J	AA	AB
	R705	30000459	RES CF 1/4W 100R J	AA	AB
	R715	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R717	30012695	RES SMD 1/16W 470R J (0603)	AA	AB
	R719	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R721	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R722	30012510	RES SMD 1/16W 100R J (0603)	AA	AB
	R725	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R726	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R727	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R730	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R731	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R801	30000982	RES MF 1/4W 4.7K J	AA	AA
	R803	30012659	RES SMD 1/16W 2.2K J (0603)	AA	AB
	R804	30000504	RES CF 1/4W 120K J	AA	AB
	R805	30000843	RES MF 1/4W 10R J	AA	AA
	R806	30000982	RES MF 1/4W 4.7K J	AA	AA
	R807	30001130	RES MO 1/2W 0.22R J	AA	AB
⚠	R810	30001257	RES MG SAFE 1/2W 4.7M J	AA	AD
	R811	30000594	RES CF 1/4W 22K J	AA	AB
	R813	30000718	RES CF 1/4W 4.7K J	AA	AB
	R814	30000588	RES SMD 1/10W 220R J 0805	AA	AB
	R815	30000452	RES CF 1/4W 10R J	AA	AB
	R817	30001037	RES MF 1/4W 99K F	AA	AB

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	R818	30000925	RES MF 1/4W 2.2K F	AA	AB
	R819	30000810	RES CF 1/4W 820R J	AA	AB
	R821	30000470	RES CF 1/2W 10K J	AA	AA
	R828	30001265	NTC MONITOR 10R/3A SCK-103	AA	AB
	R829	30000718	RES CF 1/4W 4.7K J	AA	AB
	R830	30012657	RES SMD 1/16W 1K J (0603)	AA	AB
	R831	30012669	RES SMD 1/16W 22K J (0603)	AA	AB
⚠	R836	30001224	RES FUSE SAFE 1/2W 0.22R J	AA	AB
	R838	30000631	RES SMD 1/10W 2.7K J 0805	AA	AB
	R900	30006712	FERRITE BEAD 3.5X4.7X0.8	AA	AB
	R901	30006712	FERRITE BEAD 3.5X4.7X0.8	AA	AB
	R902	30006712	FERRITE BEAD 3.5X4.7X0.8	AA	AB
	R903	30000886	RES MF 1/4W 1.5K F	AA	AB
	R904	30000886	RES MF 1/4W 1.5K F	AA	AB
	R905	30000886	RES MF 1/4W 1.5K F	AA	AB
	R906	30000525	RES CF 1/2W 1.5K J	AA	AB
	R919	30001213	RES FUSE 1/4W 1R J	AA	AB
			PRINTED WIRING BOARD MODULES		
	.	20169240	CHS.ASSY.44-511D3111312229 (Mother Unit)	BK	CA
	.	20141421	CRT B.ASSY.TP44-RF/SF (AK44) (CRT Unit)	AQ	BA
			MISCELLANEOUS PARTS		
⚠	.	20140407	BACK CVR.2162SF EKO2GRAY (I) (AK44)	AR	BB
	.	20141195	BUTTON ASSY 2162 (SILVER/O.BLUE)	AD	AN
	.	35008861	SPRING ON/OFF SWITCH 1462 SHARP(SHARP)	AA	AA
	.	20141196	SNOW BOX ASSY 2162	AL	AX
	.	20140426	SNOW BOX TOP 2162SF SHARP	AC	AK
	.	20140427	SNOW BOX BOTTOM 2162SF SHARP	AC	AK
	.	35000224	SCREW C SK ZN YFMB 2.9*9.5	AA	AB
	.	35004572	SCREW P C AgSYF YSB 4x20	AA	AB
	.	35005084	SCREW C ZN RYAKB 6x30	AA	AB
	.	35008081	SCREW P C ZN YFMB 3*9.5	AA	AA
	.	20004519	CABLE HOLDER CRT (I)	AA	AB
	.	40016859	RUBBER WASHER 2163RF (I) SHARP	AA	AB
	.	40017363	CABLE HOLDER 2162_SF SHARP	AA	AC
	.	20143026	R/C 1548 SHARP (EKO2GRAY/I) (GRAY/S)	AM	AY
	.	50047047	I/B SHARP 21LS90C P/AK44/1548/EPMÇSRR	AG	AR
	.	30018423	CNAS 2P/500 SIS W/BLK C+FER UL1007AWG24	AB	AF
	.	30027392	SPEAKER 16R 4W F/R 50x90MM-21" SF SHARP	AE	AN
⚠	.	20151304	POWER CORD ASSY.(2.4MT W/FTZ)(LONGWELL)	AD	AM
	.	30017855	CONN.ASSY.4/45 (HRZ&VER) IMPROVED NEW	AB	AF
	.	35000014	EARTH SPRING (2CM)	AA	AB
⚠	.	20151662	FRONT 2162 W/H SLV285S(P)(PW/STR/S)2SPK	AS	BD
	.	30006987	IC 24C08 (WP)	AC	AH
⚠	.	20069673	FIRE BARRIER (I)(NATURAL-V.0) (AK30)	AA	AC
	.	30009783	SOCKET IC 56P (SHRINK)	AC	AH
	.	30009784	SOCKET IC 8P (DIP)	AA	AB
	.	35000136	FUSE HOLDER TK79-A (GRAY)	AA	AD
	.	40016815	LOGO SHARP (D.C.-SILVER)21"SF SHARP	AC	AH
⚠	F801	30001731	FUSE SAFE 2.5A 250V 5*20MM	AA	AC
	PL101	30015053	SOCKET SCART NEW TYPE	AB	AF
	PL301	30001829	CONN HEADER 2P 2.5MM TOP WHT SD	AA	AB
	PL302	30018454	CONN HEADER 2P 2.5MM TOP BLACK	AA	AA
	PL405	30006709	CONN HEADER 5P 2.5MM TOP WHT SD	AA	AB
	PL501	30001783	CONN HEADER 5P 2.5MM TOP BD	AA	AC
	PL503	30009085	CABLE 1P R2.6 35 W/CLIPS	AA	AC
	PL504	30019101	CABL 1P/350 DIS UL1672AWG22	AA	AB
	PL601	30001827	CONN HEADER 4P 5/7.5MM TOP WHT	AA	AD
	PL602	30006660	CONN HEADER 4P 2.5MM TOP WHT SD	AA	AB
	PL801	30001792	CONN HEADER 2P 7.5MM TOP WHT	AA	AC
	PL802	30001795	CONN HEADER 3P 5/7.5MM TOP WHT	AA	AC
	PL900	30016695	CNAS 5P/450 FLT W/C+CBLH UL2468AWG24	AB	AE
	PL902	30016694	CNAS 4P/450 FLT W/C+CBLH UL2468AWG24	AA	AE
⚠	PL903	30001855	SOCKET CRT SAFE NARROWNECK W/GND	AD	AM

	REF No.	PARTS	DESCRIPTION	SN CODE	EX CODE
	SG900	30000428	SPARK GAP 300V	AB	AG
	SG901	30000428	SPARK GAP 300V	AB	AG
	SG902	30000428	SPARK GAP 300V	AB	AG
	SW506	30016022	SWITCH TACT VERTICAL T&R	AA	AB
	SW507	30016022	SWITCH TACT VERTICAL T&R	AA	AB
	SW508	30016022	SWITCH TACT VERTICAL T&R	AA	AB
	SW509	30016022	SWITCH TACT VERTICAL T&R	AA	AB
	SW510	30016022	SWITCH TACT VERTICAL T&R	AA	AB
⚠	SW801	30017848	SWITCH SAFE ON/OFF 4A/128A JVC(PANASONI)	AC	AH
⚠	TH800	30001268	THERMISTOR 3P	AD	AM
	VL405	30014048	ADJ.COIL VIF 44MHZ Q=64 C=39pF	AA	AE

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